

Minh Chau Pham-Nguyen: chau.phamnguyenminh@gmail.com

Trang Linh Do: lalalanado@gmail.com Nga Linh Do: linhndo2202@gmail.com

Minh-Anh Nguyen-Dang: dangminhanhnguyen@gmail.com







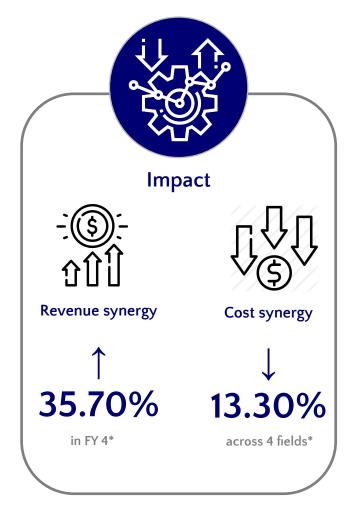
Executive Summary



Company acquired: Sino Wealth Electronic

- Based in Shanghai, China
- Specializing in manufacturing MCUs for IoT and automotive applications
- Number of employees: 363
- 4 subsidiaries & 3 branches¹
- Market cap: 20.6B JPY²





¹DNB ²Market Watch

*compared with Renesas & its subsidies standalone

Summary

Opportunities

Targets

Strategy

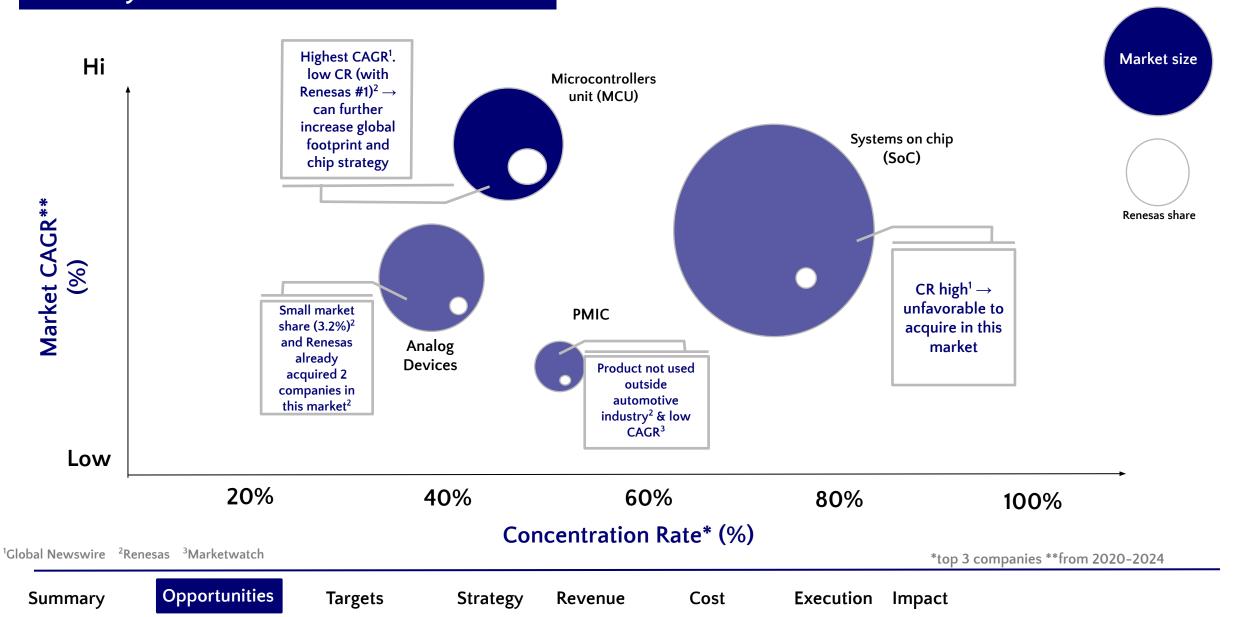
Revenue

Cost

Execution Impact



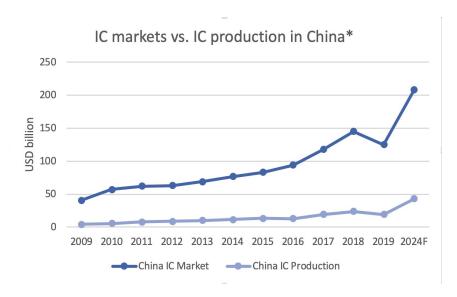
Industry Attractiveness: Potential & CR





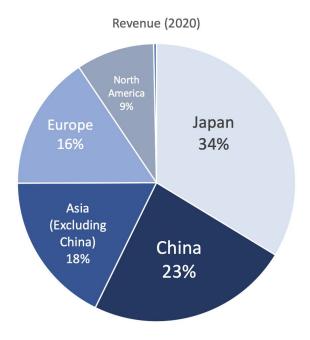
Narrowing down the geographical market: China

Low domestic supply



- China has slow growth in production of IC due to talent shortage, low R&D investment and lagged-behind technology.*
- Affected by restrictions from the US, Taiwan and South Korea → Japanese companies have a chance

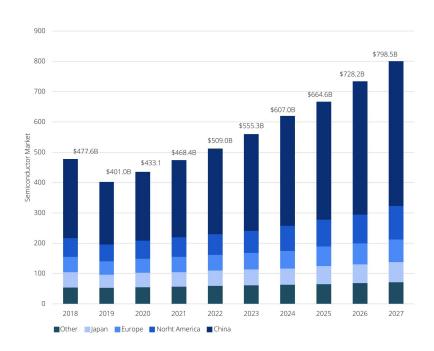
Established advantage



- China accounted for 23% in total revenue 2020**
- Can utilize SW's factories to ↓ logistics cost
 - → Advantageous to acquire

Cost

Highest consumption



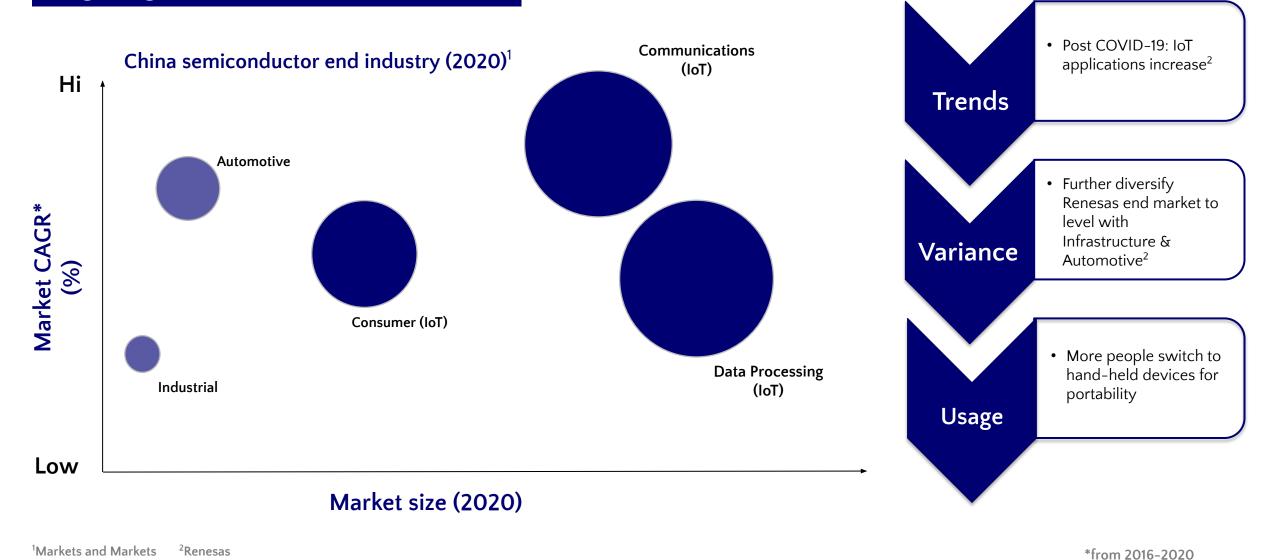
- China has the highest consumption of IC in the world.*
 - → Irreplaceable in the market

^{*}Deloitte **Renesas

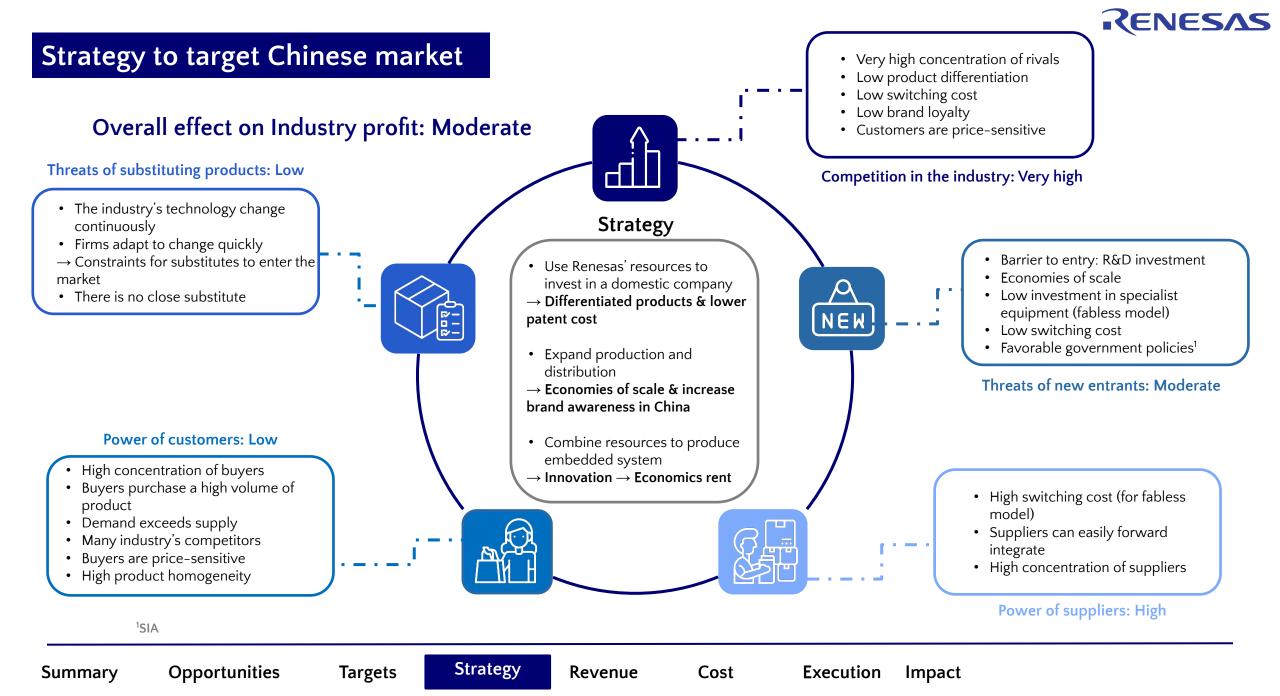




Targeting end market in China - IoT



Summary Opportunities Target Strategy Revenue Cost Execution Impact





With every Renesas M&A strategy. Sino Wealth satisfies

Higher profit margins

- Sino Wealth has a revenue growth rate of 21.34% and a gross profit margin of 38.19%¹
- Synergizing technology of 2 companies can yield higher prices and lower R&D costs → higher profit

- Sino Wealth is a fabless company
- Utilizing Sino Wealth's existing subsidiaries and factories to lower logistics and R&D costs

Fabless



Further entering China market

 Utilizing Sino Wealth's brand awareness to further extend Renesas into China market

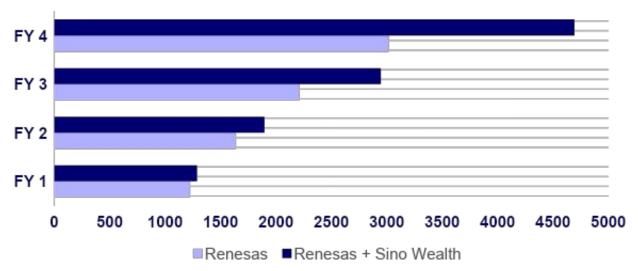
- Sino Wealth has low-power MCUs that can further integrate into embedded systems & match sustainable development goals
- Sino Wealth MCU for cooling systems that can be integrated into systems for automotive markets & IoT markets

Extension into embedded solutions

¹WSJ

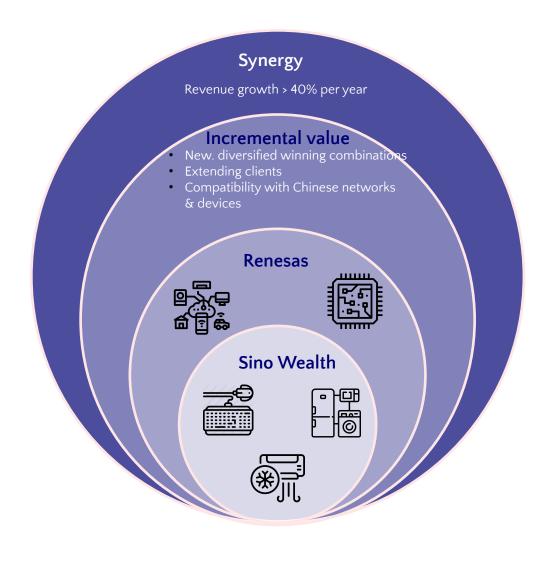


Revenue synergy projection – 4 FY



Unit: Billion JPY

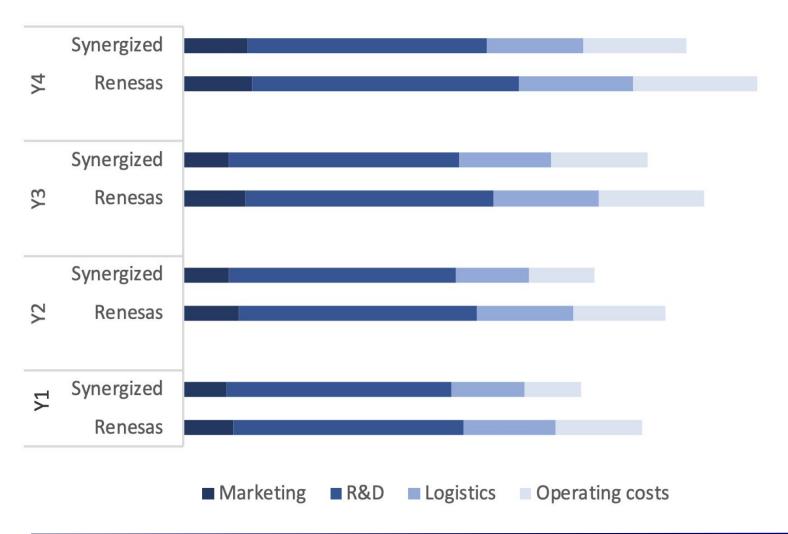
	Renesas	Sino Wealth	Incremental value	Consolidated revenue
Y1	1226.1564	25.50	37.5	1289.2
Y2	1639.3	31.3	226.5	1897.1
Y3	2213	40.7	693.7	2947.4
Y4	3018.5	53.03	1622.57	4694.1



Summary Opportunities Targets Strategy Revenue Cost Execution Impact



Cost synergy projection – 4 FY





- Low marketing costs to Chinese customers
- Utilizing SW's existing networks
- Lower R&D increase rate as technology combines
- Utilizing SW's existing manpower & Chinese products compatibility





- Lower logistics cost as ICs can be manufactured at SW's existing factories and partners
- Lower personnel costs
- Lower branch set-up costs
- Lower expanding distributor network costs





Execution plan

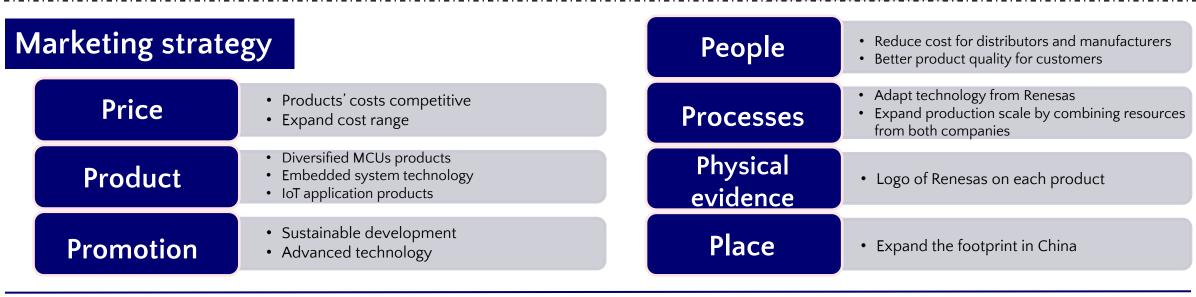
Opportunities

Targets

Strategy

Summary

	Y0	Y1	Y2	Long-term
Acquisition discussion and transaction	Evaluate and negotiate with Sino Wealth	Regulatory clearance, permanent financing and announce transaction		
MCU technologies transfer		Transfer technology and operating process	Expand application in IoT market	
MCU production expansion			s to mass produce MCUs s through new channels	Increase production for consumption and ES
Embedded system (ES) production	Invest in R&D for embedded system	Perfecting technology & design	Use MCUs produced in Renesas & Sino Wealth technology in ES	Mass production of ES & global distribution

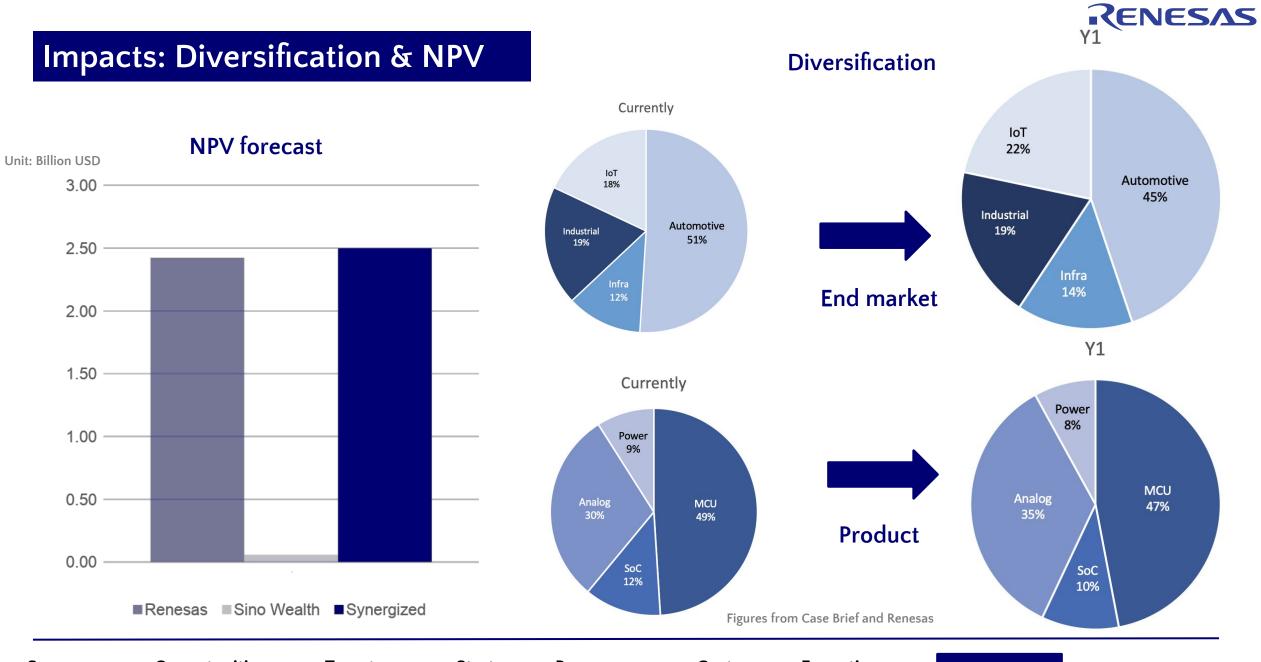


Revenues

Cost

Execution

Impact



Summary Opportunities Targets Strategy Revenues Cost Execution Impact



Appendix 1: Revenue synergy - 4 FY

Unit: Billion IPY

Current QoQ increase: \sim 10% (\pm 1%) (Forecast) Revenue synergy after Renesas acquires SW

	Q1	Q2	Q3	Q4
Y1	269.2	300.1 (QoQ +11%)	336.7122 (QoQ +12.2%)	383.2 (QoQ +13.8%)
Y2	393.9	441.2	497.2	564.8
	(QoQ +2.8%)*	(QoQ +12%)	(QoQ +12.7%)	(QoQ +13.6%)
Y3	608.9	684.4	774.0	880.1
	(QoQ +7.8%)	(QoQ +12.4%)	(QoQ +13.1%)	(QoQ +13.7%)
Y4	966.3	1088.1	1230.6	1409.1
	(QoQ +9.8%)	(QoQ +12.6%)	(QoQ +13.1%)	(QoQ +14.5%)

^{*}Product rebranding/remanufacturing after 1st year of acquiring may lower revenue



MCUs for gaming keyboards & mouse

Meter. Healthcare and Cooling MCUs

Home Appliance MCUs

Low-power and wireless MCUs for embedded solutions



Extending clients

Products compatible with Chinese appliances

Accessibility to Sino Wealth's clients

IoT embedded solutions suitable for Chinese internet systems

Accessibility to Sino Wealth local distributors

Appendix 2: Cost synergy projection - 4 FY



	Marketing	R&D	Logistics	Operating
Y1	↓ 15%	↓ 1%	↓ 20%	↓30%
Y2	↓ 17,50%	↓ 3,85%	↓ 16,67%	↓ 10,00%
Y3	↓ 11,11%	↓ 3,70%	↓ 7,83%	↓ 8,70%
Y4	↓ 6,67%	↓ 2,59%	↓ 6,40%	↓ 7,41%

As Renesas grows, % of each category will slightly decrease due to increasing costs



Appendix 3: CAGR, CR and trends for each product

Product/Industry	Key players	Predicted CAGR/ value	Life cycle	Renesas market share	Trends
MCU	NXP, STM, Microchip, Tech, Infineon Tech (58%)	6% (2020-2024) Value: 17.79 bil (2020) ³	Mature but can be extended in the future	17%	• Hardware • Can be further targeted at hobbyists (cameras, etc.) + engineers
SoC	Intel, Qualcomm, Toshiba (>60%)	5% (2020-2024) ⁵ Value: \$124.6 bil	Rising	14%	 Are still being studied and developed Trends in the future: increase power efficiency, convert to multiprocessor SoCs, reconfigurable logic, devise effective testing time
Analog devices	Texas Instruments, Analog Devices; (47.5%)	4.8% (2020-2027) ¹ Value: \$54 bil (2020)	Rising	3.2%	 Mainly used in infrastructure/communication end market Needs in the market: Minimum costs; Minimum power dissipation; Increasing bandwidth for higher data rates to customers; Feature enhancement, innovation
Power management (PMIC)	Texas Instrument, STMicroelectroni cs (53.68%) ⁴	4.66% (2020-2027) ² Value: 2273.72 Million USD (2020) ²	Mature	<4.5%	 Growing demand for energy saving products Trend of miniaturizing electrical components for consumer electronics and wearables

¹Businesswire ²Marketwatch ³Grand View Research ⁴Pr Newswire ⁵Research and Markets



Appendix 4: Net Present Value

RENESAS ELECTRONICS						
WAAC		6%				
Year	After tax of	Present Value				
0	-\$9,143,382,385.95		-\$9,143,382,385.95			
1		\$3,166,720,477.65	\$2,987,472,148.73			
2		\$3,608,743,126.43	\$3,211,768,535.45			
3		\$3,613,533,876.52	\$3,033,992,722.62			
4		\$2,947,241,901.33	\$2,334,491,634.07			
NPV Total			\$11,567,725,040.86			
Initial Outlay			-\$9,143,382,385.95			
NPV value	NPV Total + I	nitial Outlay	\$2,424,342,654.91			

	SINO WEALTH ELECTRONICS					
WAAC	6.3%					
Year	After tax c	ash flow	Present Value			
0	-\$36,745,423.81		-\$36,745,423.81			
1		\$15,361,692.16	\$14,451,262.62			
2		\$23,888,103.34	\$21,140,494.42			
3		\$37,587,273.49	\$31,292,555.44			
4		\$36,127,381.84	\$28,294,591.69			
NPV Total			\$95,178,904.17			
Initial Outlay			-\$36,745,423.81			
NPV value	NPV Total + Ir	nitial Outlay	\$58,433,480.36			

TOTAL NET PRESENT VALUE			
Synergies \$17,300,000.00			
Renesas NPV	\$2,424,342,654.91		
Sino Wealth NPV	\$58,433,480.36		
Total	\$2,500,076,135.28		





Revenue by end market. Data reported in billion yen except percent

	FY0	Percent/Revenue FY0	FY1	Percent/Revenue FY1	Percent change (YoY)
Revenue	700.8	100	1226.1	100	+75
Automotive	357.4	51	549.8	45	+54
Infrastructure	84.1	12	177.3	14	+111
Industrial	133.2	19	233.1	19	+75
ІоТ	126.1	18	265.8	22	+111

Revenue by product. Data reported in billion yen except percent

	FY0	Percent/Revenue FY0	FY1	Percent/Revenue FY1	Percent change
Total revenue from end markets	700.8	100	1226.1	100	+75
MCU	343.4	49	576.3	47	+68
SoC	84.1	12	122.6	10	+46
Analog	210.2	30	429.1	35	+104
Power	63.1	9	98.1	8	+55